SEQUENCE LISTING

TEGOX

- (1) GENERAL INFORMATION:

 - (ii) TITLE OF INVENTION: Ligands for flt3 Receptors
 - (iii) NUMBER OF SEQUENCES: 8
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Stephen L. Malaska, Immunex Corporation
 - (B) STREET: 51 University Street
 - (C) CITY: Seattle
 - (D) STATE: Washington
 - (E) COUNTRY: US
 - (F) ZIP: 98101
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: Apple Macintosh
 - (C) OPERATING SYSTEM: Macintosh 7.0.1
 - (D) SOFTWARE: Microsoft Word, Version #5.1
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: -to be assigned-
 - (B) FILING DATE: March 7, 1994
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/162,407
 - (B) FILING DATE: December 3, 1993
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/111,758
 - (B) FILING DATE: August 25, 1993
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/106,463
 - (B) FILING DATE: August 12, 1993
 - (C) CLASSIFICATION:
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/068,394
 - (B) FILING DATE: May 24, 1993
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Malaska, Stephen L.
 - (B) REGISTRATION NUMBER: 32,655
 - (C) REFERENCE/DOCKET NUMBER: 2813-D
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (206) 587-0430
 - (B) TELEFAX: (206) 233-0644
 - (C) TELEX: 756822

IMMUNEX CORPORATION 2813-E

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 879 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA to mRNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 1..25
- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 855..879
- (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 57..752
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GTC	SACTO	GGA A	ACGA	GACG	AC C	rgcto	CTGT	C AC	AGGC	ATGA	GGG	GTCC	CCG (GCAG	AG	56
														TTG Leu 15		104
														TGT Cys		152
														AGA Arg		200
														GTC Val		248
														CTA Leu		296
														ATG Met 95		344
														TCA Ser		392



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					CCA Pro											440
					GAC Asp											488
					TGC Cys 150											536
					TCC Ser											584
					CTC Leu											632
					CCT Pro											680
					AGG Arg											728
GTG CCC CTC CCC TCC CAT CCC TAGGATTCGA GCCTTGTGCA TCGTTGACTC Val Pro Leu Pro Ser His Pro 225 230												C	779			
AGC	CAGG	GTC 7	TAT	CTCG	ST TA	ACAC	CTGT	A ATO	CTCA	GCCC	TTG	GGAG	ccc 1	AGAG	CAGGAT	839
TGC	rgaa'	rgg :	rctg	GAGC	AG G	rcgr	CTCG	r TC	CAGTO	CGAC						879
(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	10:2	:								
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 231 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear																
	(:	ii) 1	MOLE	CULE	TYP	E: p:	rote	in					•			
	(:	κi) S	SEQUI	ENCE	DES	CRIP'	rion	: SE	Q ID	NO:	2:					
Met 1	Thr	Val	Leu	Ala 5	Pro	Ala	Trp	Ser	Pro 10	Asn	Ser	Ser	Leu	Leu 15	Leu	
Leu	Leu	Leu	Leu 20	Leu	Ser	Pro	Cys	Leu 25	Arg	Gly	Thr	Pro	Asp 30	Cys	Tyr	
Phe	Ser	His 35	Ser	Pro	Ile	Ser	Ser 40	Asn	Phe	Lys	Val	Lys 45	Phe	Arg	Glu	
Leu	Thr 50	Asp	His	Leu	Leu	Lys 55	Asp	Tyr	Pro	Val	Thr 60	Val	Ala	Val	Asn	



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Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala 65 70 75 80

Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln 85 90 95

Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys 100 105 110

Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe Val Gln Thr Asn Ile 115 120 125

Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu Leu Ala Leu Lys Pro 130 135 140

Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg Cys Leu Glu Val Gln 145 150 155 160

Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro Arg Ser Pro Ile Ala 165 170 175

Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg Pro Arg Gln Leu Leu Leu 180 185 190

Leu Leu Leu Leu Pro Leu Thr Leu Val Leu Leu Ala Ala Trp 195 200 205

Gly Leu Arg Trp Gln Arg Ala Arg Arg Gly Glu Leu His Pro Gly 210 215 220

Val Pro Leu Pro Ser His Pro 225 230

- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

TCGACTGGAA CGAGACGACC TGCT

24

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear



IMMUNEX CORPORATION 2813-E (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: AGCAGGTCGT CTCGTTCCAG 20 (2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 988 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA to mRNA (iii) HYPOTHETICAL: NO (iv) ANTI-SENSE: NO (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 30..734 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: CGGCCGGAAT TCCGGGGCCC CCGGCCGAA ATG ACA GTG CTG GCG CCA GCC TGG 53 Met Thr Val Leu Ala Pro Ala Trp AGC CCA ACA ACC TAT CTC CTC CTG CTG CTG CTG AGC TCG GGA CTC 101 Ser Pro Thr Thr Tyr Leu Leu Leu Leu Leu Leu Ser Ser Gly Leu 10 15 AGT GGG ACC CAG GAC TGC TCC TTC CAA CAC AGC CCC ATC TCC TCC GAC 149 Ser Gly Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp 25 30 , 35 TTC GCT GTC AAA ATC CGT GAG CTG TCT GAC TAC CTG CTT CAA GAT TAC 197 Phe Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr CCA GTC ACC GTG GCC TCC AAC CTG CAG GAC GAG GAG CTC TGC GGG GGC 245 Pro Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly 65 CTC TGG CGG CTG GTC CTG GCA CAG CGC TGG ATG GAG CGG CTC AAG ACT 293 Leu Trp Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr 80 GTC GCT GGG TCC AAG ATG CAA GGC TTG CTG GAG CGC GTG AAC ACG GAG 341 Val Ala Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu ATA CAC TTT GTC ACC AAA TGT GCC TTT CAG CCC CCC CCC AGC TGT CTT



105

115

120

Ile His Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu

110

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															TCC Ser 135		437
															TCC Ser		485
															CCC Pro		533
5															CAG Gln		581
															CTG Leu		629
															CCC Pro 215		677
															CTG Leu		725
	GTG GAG CAC TGACCTGGCC AAGGCCTCAT CCTGCGGAGC CTTAAACAAC Val Glu His 235															774	
	GCAG	TGAG	SAC A	AGACA	ATCTA	AT CF	TCCC	CATTI	TAC	CAGGO	GAG	GATA	ACTGA	AGG (CACAC	CAGAGG	834
	GGAG	STCAC	CCA (CCAC	GAGGA	AT GI	ATAC	CCTC	GAC	CACAC	SAGG	AAGI	TGGC	CTA C	SAGGO	CCGGTC	894
	CCTT	CCTI	GG (CCCC	CTCTC	CA TI	CCCI	CCCC	AGA	ATGO	SAGG	CAAC	CGCCA	AGA A	ATCC	GCACC	954
	GGCC	CCAI	TT A	ACCCA	ACTO	CT GF	ACAA	AGCC	ccc	CG							988

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 235 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Met Thr Val Leu Ala Pro Ala Trp Ser Pro Thr Thr Tyr Leu Leu Leu 1 5 10 15

Leu Leu Leu Ser Ser Gly Leu Ser Gly Thr Gln Asp Cys Ser Phe 20 25 30



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Gln	His	Ser	Pro	Ile	Ser	Ser	Asp	Phe	Ala	Val	Lys	Ile	Arg	Glu	Leu
		35					40					45			

- Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val Thr Val Ala Ser Asn Leu 50 55 60
- Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp Arg Leu Val Leu Ala Gln 65 70 75 80
- Arg Trp Met Glu Arg Leu Lys Thr Val Ala Gly Ser Lys Met Gln Gly 85 90 95
- Leu Leu Glu Arg Val Asn Thr Glu Ile His Phe Val Thr Lys Cys Ala
 100 105 110
- Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe Val Gln Thr Asn Ile Ser 115 120 125
- Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu Val Ala Leu Lys Pro Trp 130 135 140
- Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu Glu Leu Gln Cys Gln Pro 145 150 155 160
- Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser Pro Arg Pro Leu Glu Ala 165 170 175
- Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu Leu Leu Leu Leu Leu Leu 180 185 190
- Pro Val Gly Leu Leu Leu Ala Ala Ala Trp Cys Leu His Trp Gln 195 200 205
- Arg Thr Arg Arg Thr Pro Arg Pro Gly Glu Gln Val Pro Pro Val 210 215 220
- Pro Ser Pro Gln Asp Leu Leu Leu Val Glu His 225 230 235
- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 71 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA to mRNA
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
- AATTGGTACC TTTGGATAAA AGAGACTACA AGGACGACGA TGACAAGACA CCTGACTGTT 60
 ACTTCAGCCA C 71



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- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA to mRNA
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

ATATGGATCC CTACTGCCTG GGCCGAGGCT CTGGGAG

37

